Using Technology to Improve Safety

3rd Eye Digital Solutions
Using Technology To Positively Impact Your Fleet

- Safety
- Operations
- Maintenance
- Fuel Tax / Usage Administration
How it Works: Triggered Events

- Event Recording Device
  - Records all installed cameras
  - Audio is recorded
- Gathers Information From:
  - Outside the vehicle
  - Live tracking of truck (GPS)
  - J1939 Information – Speed, Telemetry
Hardware Features & Design

- Up to 256GB MicroSD card
  - Approximately 300 hours
- Up to 8 cameras recording
- Real time video analytics and driver event processing
- Linux Operating System
- Open architect for future expansion

J1939 / OBDII – Yellow
GPS – Green
Ignition – Cyan
3G/4G Connectivity – Orange
ELD Status - Blue
Event Detection – Red

Video Event Trigger by Driver

SD Card Secured Inside Gateway
Protecting your people

- Up to 6 additional cameras
- Never miss an accident
- Reliable Managed Service
- 25 frames/sec video clips
- Advanced video analytics
Protecting your people
Protecting your people

- Original police report had the roll off truck traveling in center lane.
- Reported stated that the roll off truck changed lanes and created the impact.
- Originally described as a rear end collision, **ALL** liability was placed on the roll off driver.
- After providing the police with the video from the truck, 100% of the responsibility was transferred from the roll off truck to the utility truck.
- In this case, a picture was worth a couple hundred thousand words.
3rd Eye 5 Step Safety Cycle

Easy to use customized web portal for data management and coaching

1. Event Recorder
2. Real Time Upload as Events Occur
3. Data evaluated for safety, operations and maintenance
4. Simplified Web Based Coaching
5. Automated KPI Reporting

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Advanced Safety Reporting

- Custom Real Time Reporting
- Monitor Both Drivers and Coaches
Advanced Video Analytics

The basic concept of determining distance to the end of the vehicle in front of the truck is based on where the camera sees the vehicle in its field of view (FOV).

Speed vs. distance is linear
2x the speed = 2x the distance

The safe speed, based on the 3 second rule, is based on where the back of the vehicle is located in the zone mapping.

These zones are mapped to 5 MPH increments.
Using Technology To Positively Impact Your Fleet

Safety
Operations
Maintenance
Fuel Tax / Usage Administration
Enhanced Awareness

✓ Custom KPI Metrics
✓ Site Conditions
✓ Evaluate Productivity
✓ Identify Opportunities

SAFETY
Wrap assets in 360° of camera coverage to monitor vehicle and driver environment in real time.

ASSET UTILIZATION
Record and track the hours your assets are working and their exact location.

ENGINE DIAGNOSTICS
Know the health of your engine with key utilization metrics captured in real time.

EQUIPMENT BEHAVIOR
Know the complete status of your garbage truck's hopper, compactor, and ancillary equipment in real time.

ON ROAD/OFF ROAD
Know when your assets are on highway and when they're not with the data to validate.

CUSTOM SOLUTIONS
Refuse fleet solutions customized for your business needs.
Utilizing the Data

Service Verification

Contamination Recognition

Container Overages
Enhanced Fleet Awareness

- Body / Chassis Telemetry Data
- API / Back Office Integration
- Detailed Customer Tracking
- Positive Service Verification
- Industry Specific Reporting
- Live Camera Streaming
- Electronic Logging Device

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Productivity
Live Streaming
Service Verification
Vehicle Breadcrumb
Vehicle Idling Report
Vehicle Health Report
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Vehicle Breadcrumb

Vehicle Idling Report

Vehicle Health Report

Service Verification

Live Streaming

Productivity
Electronic Logging Device

✓ Drive Time / Mileage Automatically Captured
✓ Back Office Management

3rd Eye FMCSA Compliant APP
Easy to Use Driver Interface
Quick Access to Driver Logs
Use with Android Tablet / Phone